


IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

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18

Applicant: Fang  
Filed: August 28, 2001  
Serial No.: 09/941,963  
Title: Method of Cleaning an Inter-Level Dielectric Interconnect  
Attorney Docket: 01 P 14755 US  
Examiner: Lee, Hsien Ming  
Art Unit: 2823

Commissioner for Patents  
P. O. Box 1450  
Alexandria, VA 22313-1450

|   |                 |
|---|-----------------|
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| <br>Julie Russell   | 2/13/04<br>Date |

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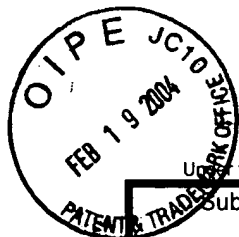
02/24/2004 MAHME1 00000177 501065 09941963  
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Respectfully submitted,



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|------------------------|-----------------|
| Application Number     | 09/941,963      |
| Filing Date            | August 28, 2001 |
| First Named Inventor   | Fang            |
| Art Unit               | 2823            |
| Examiner Name          | Lee, Hsien Ming |
| Attorney Docket Number | 01 P 14755 US   |

**U.S. PATENT DOCUMENTS**

| Examiner<br>Initials* | Cite<br>No. <sup>1</sup> | Document Number                            | Publication Date<br>MM-DD-YYYY | Name of Patentee or<br>Applicant of Cited Document | Pages, Columns, Lines, Where<br>Relevant Passages or Relevant<br>Figures Appear |
|-----------------------|--------------------------|--|--------------------------------|--|---|
|                       |                          | Number - Kind Code <sup>2</sup> (if known) |                                |  |   |
|                       | A                        | US-4,357,203                               | 11-02-1982                     | Zelez  |   |
|                       | B                        | US-5,849,367                               | 12-15-1998                     | Dixit, et al.                                      |   |
|                       |                          | US-  |                                |  |   |
|                       |                          | US-  |                                |  |   |
|                       |                          | US-  |                                |  |   |
|                       |                          | US-  |                                |  |   |
|                       |                          | US-  |                                |  |   |
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**FOREIGN PATENT DOCUMENTS**

| Examiner<br>Initials* | Cite<br>No. <sup>1</sup> | Foreign Patent Document   | Publication Date<br>MM-DD-YYYY | Name of Patentee or<br>Applicant of Cited Document | Pages, Columns, Lines,<br>Where Relevant Passages<br>or Relevant Figures Appear | T <sup>6</sup> |
|-----------------------|--------------------------|---|--------------------------------|--|---|----------------|
|                       |                          | Country Code <sup>3</sup> - Number <sup>4</sup> - Kind Code <sup>5</sup> (if known) |                                |  |   |                |
|                       | C                        | JP 02246246   | 10-02-1990                     | Fujitsu Ltd.                                       |   |                |
|                       | D                        | JP 2001217400   | 08-10-2001                     | Agilent Technologies,<br>Inc.                      |   |                |
|                       | E                        | JP 2001118846   | 10-18-1999                     | Sony Corp.   |   |                |
|                       | F                        | WO 01/29879 A2  | 04-26-2001                     | Mattson Technology,<br>Inc., et al.                |   |                |
|                       | G                        | EP 1081751 A2   | 03-07-2001                     | Applied Materials, Inc.                            |   |                |
|                       | H                        | WO 00/34997   | 06-15-2000                     | Applied Materials, Inc.                            |   |                |

**OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS**

| Examiner<br>Initials* | Cite<br>No. <sup>1</sup> | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the<br>item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue<br>number(s), publisher, city and/or country where published. | T <sup>2</sup> |
|-----------------------|--------------------------|---|----------------|
|                       |                          |   |                |
|                       | I                        | ZHAO, B., et al., "Integration of Low Dielectric Constant Materials in Advanced Aluminum and Copper Interconnects," Mat. Res. Soc. Symp. Proc., Vol. 564, 1999 Materials Research Society, pp. 485-497.   |                |
|                       |                          |   |                |

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\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup>Applicant's unique citation designation number (optional). <sup>2</sup>See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup>Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup>For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup>Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup>Applicant is to place a check mark here if English language Translation is attached.

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